

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the Claims:

- Claim 1. (Currently Amended) Apparatus for use with a subject, comprising:
a catheter having a longitudinal axis and having a distal portion; and

an ultrasound array comprising between about 32 and 64 ultrasound transducers circumferentially arranged around the longitudinal axis at the distal portion, and adapted to operate in a phased array mode to apply ablating energy to tissue of the subject located in a range of azimuths, with respect to the longitudinal axis, that is less than 360 degrees, including a range of azimuths between 180 and 359 degrees; wherein when the catheter is threaded through the venous system and disposed in a vicinity of an ostium of a pulmonary vein of the subject, the range of azimuths is sufficiently smaller than 360 degrees to avoid inducing a deficit in a phrenic nerve of the subject.
- Claim 2. (Canceled)
- Claim 3. (Canceled)
- Claim 4. (Canceled)
- Claim 5. (Original) The apparatus according to claim 1, comprising detection functionality, adapted to determine tissue of the subject that is not to be targeted by the ablating energy, wherein the ultrasound array is adapted to configure the ablating energy responsive to the determination of the tissue that is not to be targeted.

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Claim 6. (Original)

The apparatus according to claim 5, wherein the ultrasound array is adapted to set the range of azimuths responsive to the determination of the tissue that is not to be targeted.

Claim 7. (Original)

The apparatus according to claim 5, wherein the detection functionality comprises an ultrasound transducer.

Claim 8. (Original)

The apparatus according to claim 5, wherein the detection functionality comprises at least a portion of the ultrasound array.

Claim 9. (Original)

The apparatus according to claim 5, wherein the detection functionality comprises imaging functionality.

Claim 10. (Original)

The apparatus according to claim 5, wherein the detection functionality is adapted to be fixed to the distal portion of the catheter.

Claim 11. (Original)

The apparatus according to claim 5, wherein the detection functionality is adapted to operate external to a body of the subject.

Claim 12. (Canceled)

Claim 13. (Canceled)

Claim 14. (Canceled)

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Claim 15. (Canceled)

Claim 16. (Canceled)

Claim 17. (Canceled)

Claim 18. (Canceled)

Claim 19. (Canceled)

Claim 20. (Canceled)

Claim 21. (Canceled)

Claim 22. (Canceled)